



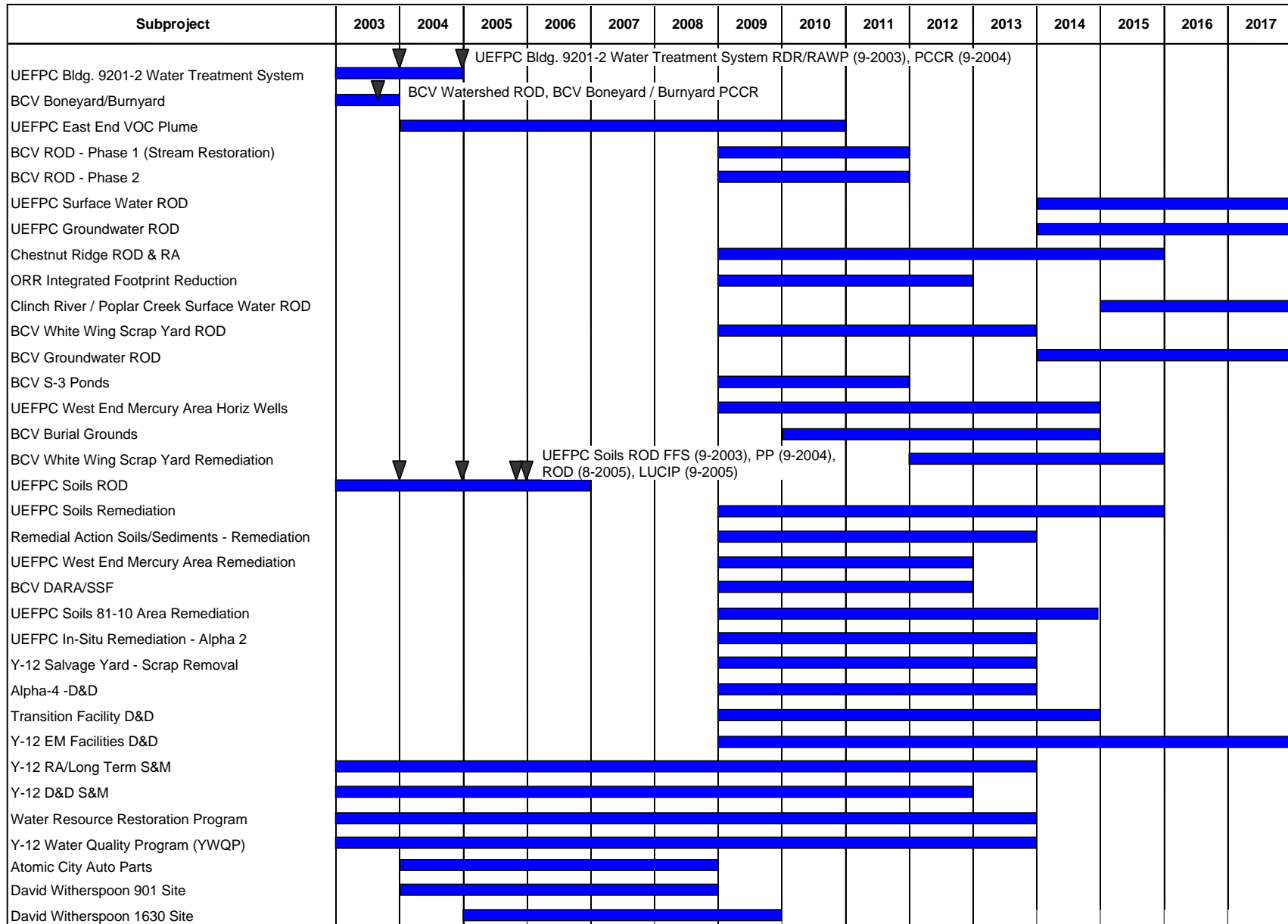
# **Oak Ridge Environmental Management Balance of Reservation**



**Accomplishments and  
Plans for Success!**

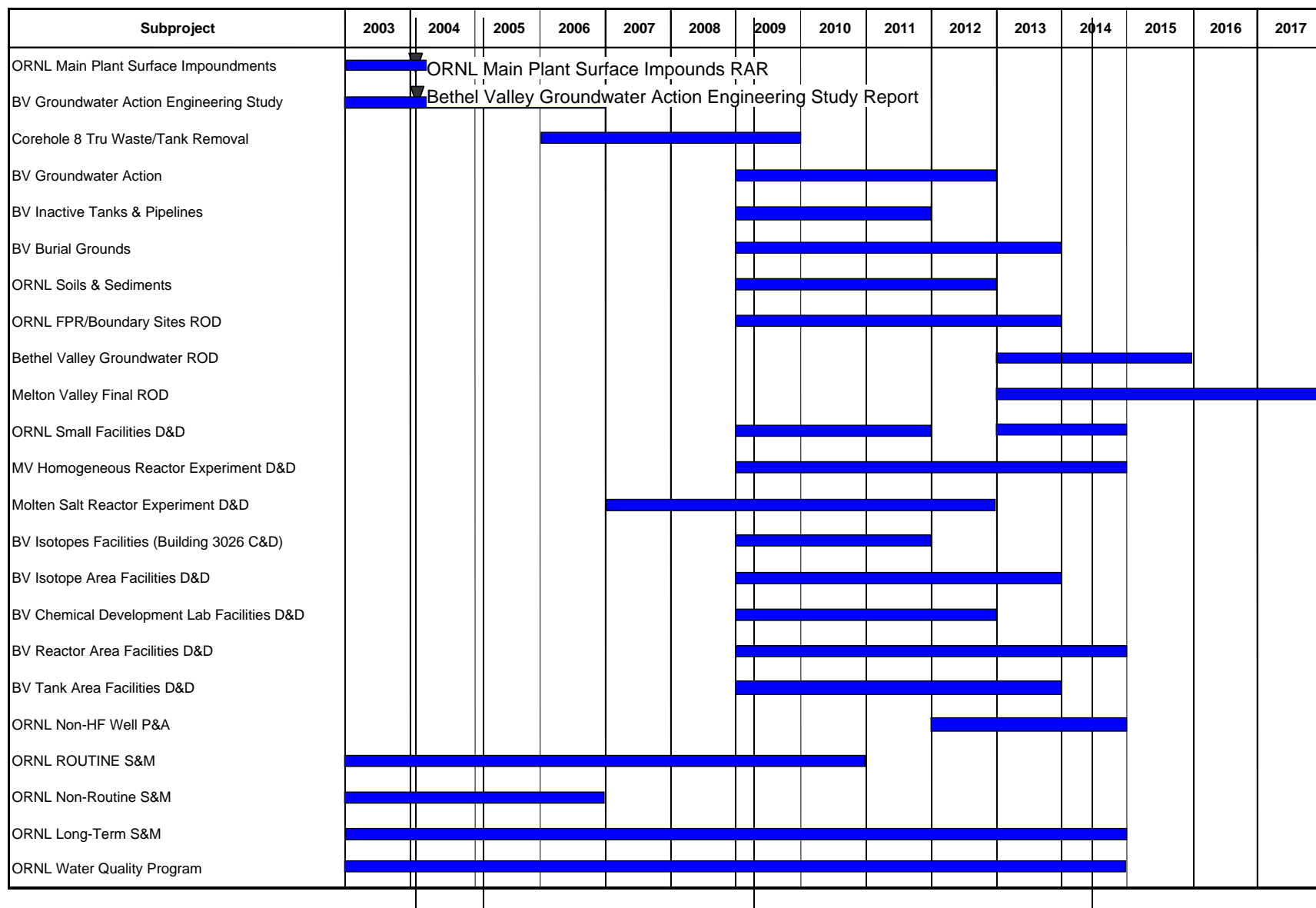
**Mildred Ferré, Project Director  
DOE-Oak Ridge Operations  
December 10, 2003**

# Balance of Program - Y-12/Off-site Projects Schedule



FFA milestone

# Balance of Program - ORNL Projects Schedule



FFA milestone

# Balance of Program (2004-2008)

- Y-12 and Oak Ridge National Laboratory Projects
- Off-site Projects
- Waste Disposition Project
- Waste Operations Project





# Balance of Program- ORNL and Y-12



## Oak Ridge National Laboratory High-Priority Risk Reduction

- **Bethel Valley Groundwater Engineering Study**
- **Corehole 8 Plume Source**
- ✓ **Surface Impoundment Operable Units Remediation Project**



## Y-12 High-Priority Risk Reduction

- **9201-2 Water Treatment System**
- **East End Volatile Organic Carbon Plume Bioremediation**
- **Upper East Fork Poplar Creek soils Record of Decision**
- ✓ **Boneyard/Burnyard Remediation Project**

# Surface Impoundment Operable Units - Cleanup Complete!



Backfilling Pond A



Removal and loading



Closed impoundment B



Final waste form being placed in  
CERCLA Waste Disposal Facility

# Boneyard/Burnyard - Cleanup Complete!



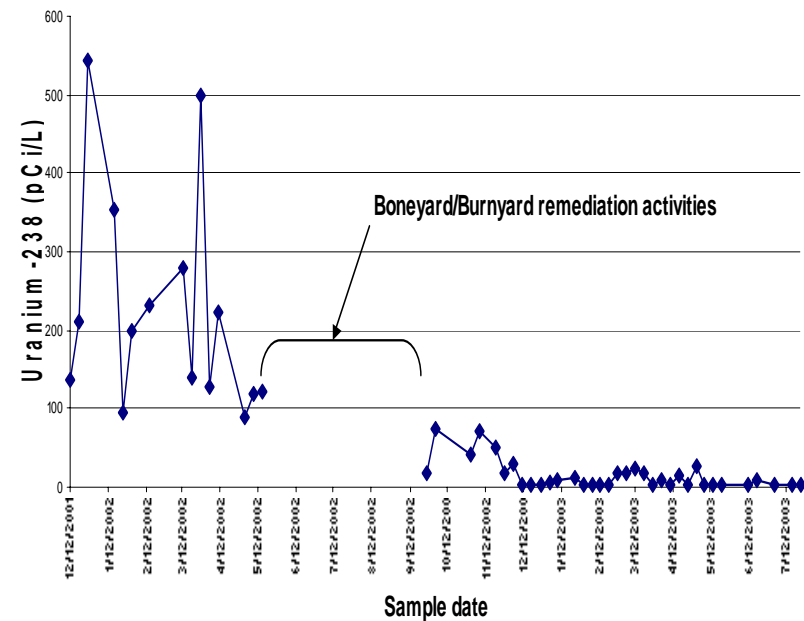
Before



12-1-03

After

- Primary contributor of  $^{238}\text{U}$  to Bear Creek
- Boneyard/Burnyard cleanup objectives met
- 55,000 yd<sup>3</sup> disposed at CERCLA Waste Disposal Facility
- Zero accidents



$^{238}\text{U}$  concentration trend analysis at NT-3



# Off-Site Projects - David Witherspoon Sites



David Witherspoon 901 Site

- ▼ David Witherspoon, Inc., 901 Site
  - Mobilizing Work Force
  - Completed tree and brush removal
  - Demolish structures in FY04
  - Ship Waste to CERCLA Waste Disposal Facility
  - Soil Cleanup to start in FY05



David Witherspoon 1630 Site

- ▼ David Witherspoon, Inc., 1630 Site
  - Mobilize in 2005
  - Ship Waste to CERCLA Waste Disposal Facility
  - Soil Cleanup to start in FY06



# Off-Site Projects - Atomic City Auto Parts



ACAP Site



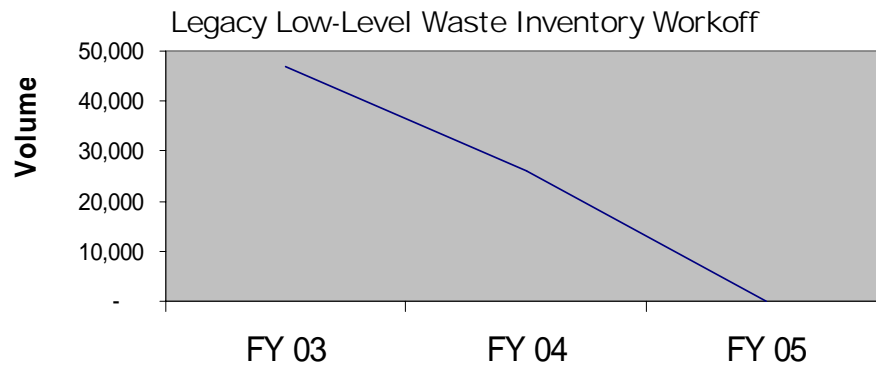
ACAP waste to CERCLA Waste Disposal Facility

- **Started remediation in November 2003**
- **Fiscal year 2004 planned completion**
- **Waste to CERCLA Waste Disposal Facility**

# ORR Low Level Waste - Done by Fiscal Year 05!

## Strategy:

- ✓ **Characterized**
- ✓ **Subcontracted to multiple vendors**
- **Outdoor East Tennessee Technology Park low level waste to CERCLA Waste Disposal Facility**
- **Balance of low level waste to Nevada Test Site/Envirocare**



Outdoor low level waste



Melton Valley Monoliths

# ORR Mixed Low Level Waste - Done by FY05!



Shipment of Table 3.4 mixed waste to Broad Spectrum Procurement vendor

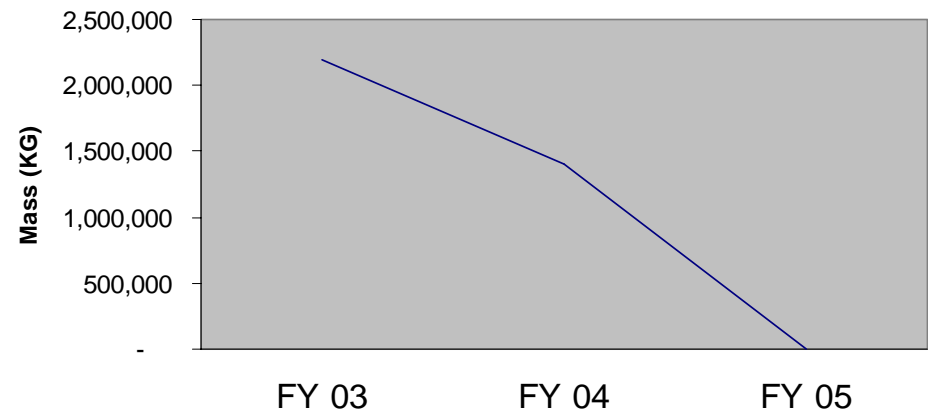


K-1065 Mixed Waste Storage

## Strategy:

- ✓ Over 1,000 potentially shock-sensitive items recovered and dispositioned
- Characterize and profile waste
- Treatment and disposal using commercial and DOE facilities

Legacy Mixed Low-Level Waste Disposition





# Waste Operations Project

## Waste Operations Strategy:

- **Mission support to Environmental Management, National Nuclear Security Administration, and Office of Science through fiscal year 2008 in contract**
- **Expedite transition of newly-generated waste responsibilities back to National Nuclear Security Administration and Office of Science by FY 2005**





# Operation of Oak Ridge Reservation Landfills



Aerial view of Landfills V and VII



G-Pit waste being disposed at Landfill V



Waste Unloading at Landfill VII

## Strategy:

- **Maximize usage of Oak Ridge Reservation Landfill for CERCLA waste**
- **Capacity expansion in step with demand**
- **Support to Environmental Management, National Nuclear Security Administration, and Office of Science missions**

# CERCLA Waste Disposal Facility Overview

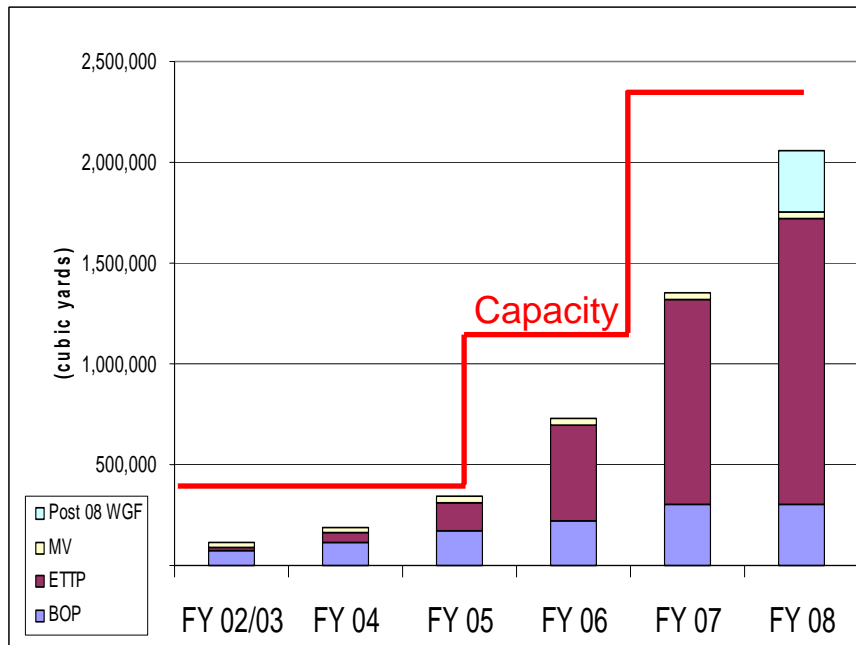
*The CERCLA Waste Disposal Facility is the key to Accelerated Cleanup*



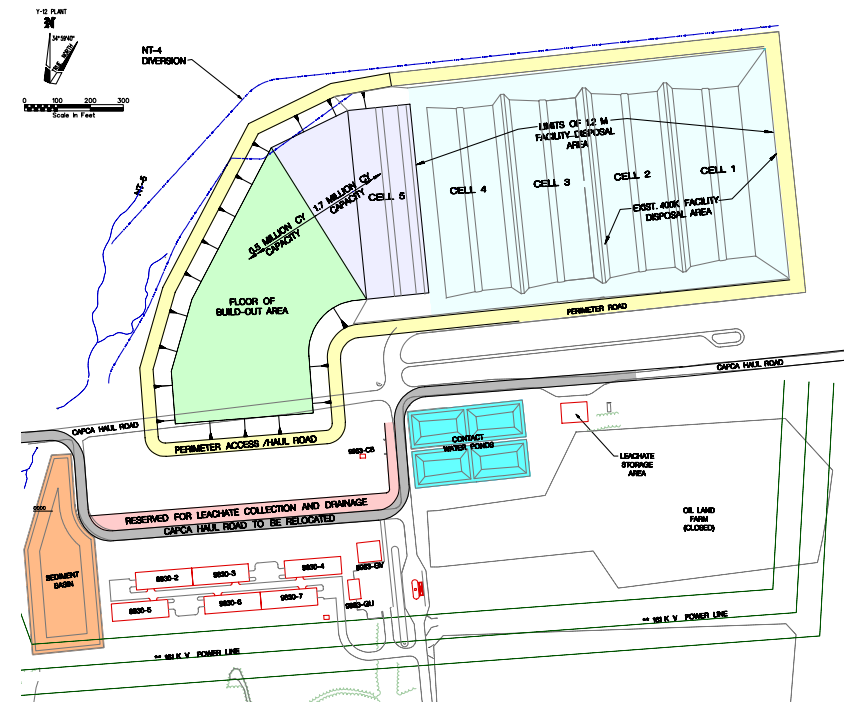
- Record of Decision signed November 1999
- Approved 1.7 M yds<sup>3</sup>
- Opened May 2002
- 139,000 yds<sup>3</sup> disposed
- ~2.1 M yds<sup>3</sup> total demand
- 2.4 M yds<sup>3</sup> total planned capacity

# CERCLA Waste Disposal Facility Project

- Future capacity expansions are coordinated with waste forecast
- Record of Decision amendment planned for Fiscal Year 05



Waste Capacity and Generation Integration



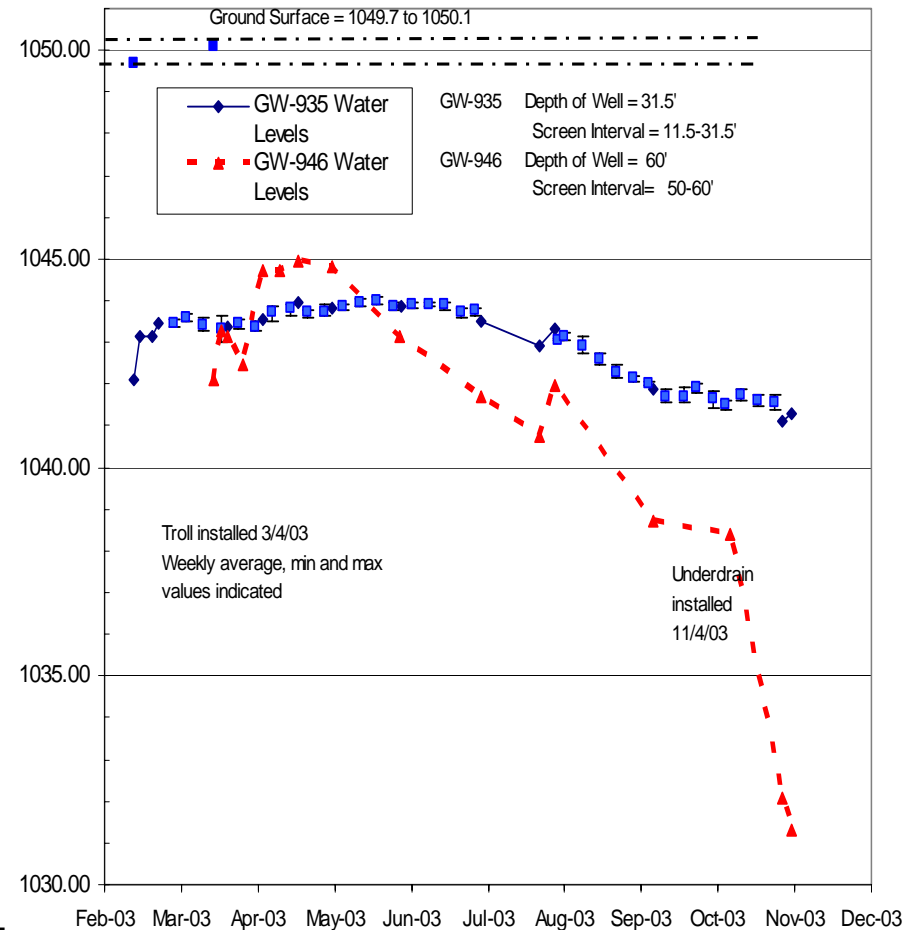
Expansion Plans

# CERCLA Waste Disposal Facility - Undercell Drain Status



Location of Undercell Drain

- **Undercell drain construction started in October 2003**
- **Immediate drop in groundwater levels**
- **Construction to be completed in January 2004**



GW-935 and GW-946 Water Levels